

FIG. 1

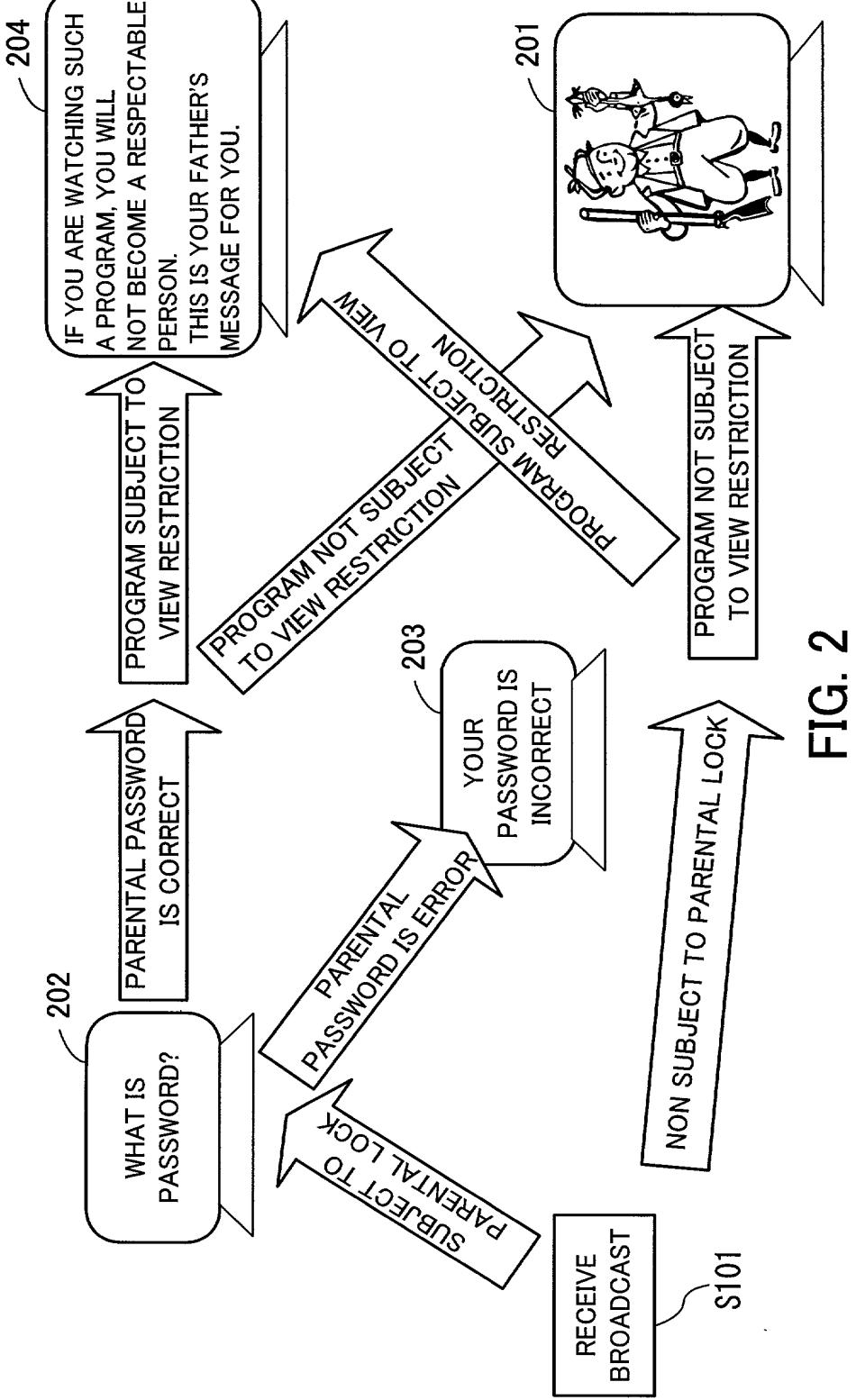


FIG. 2

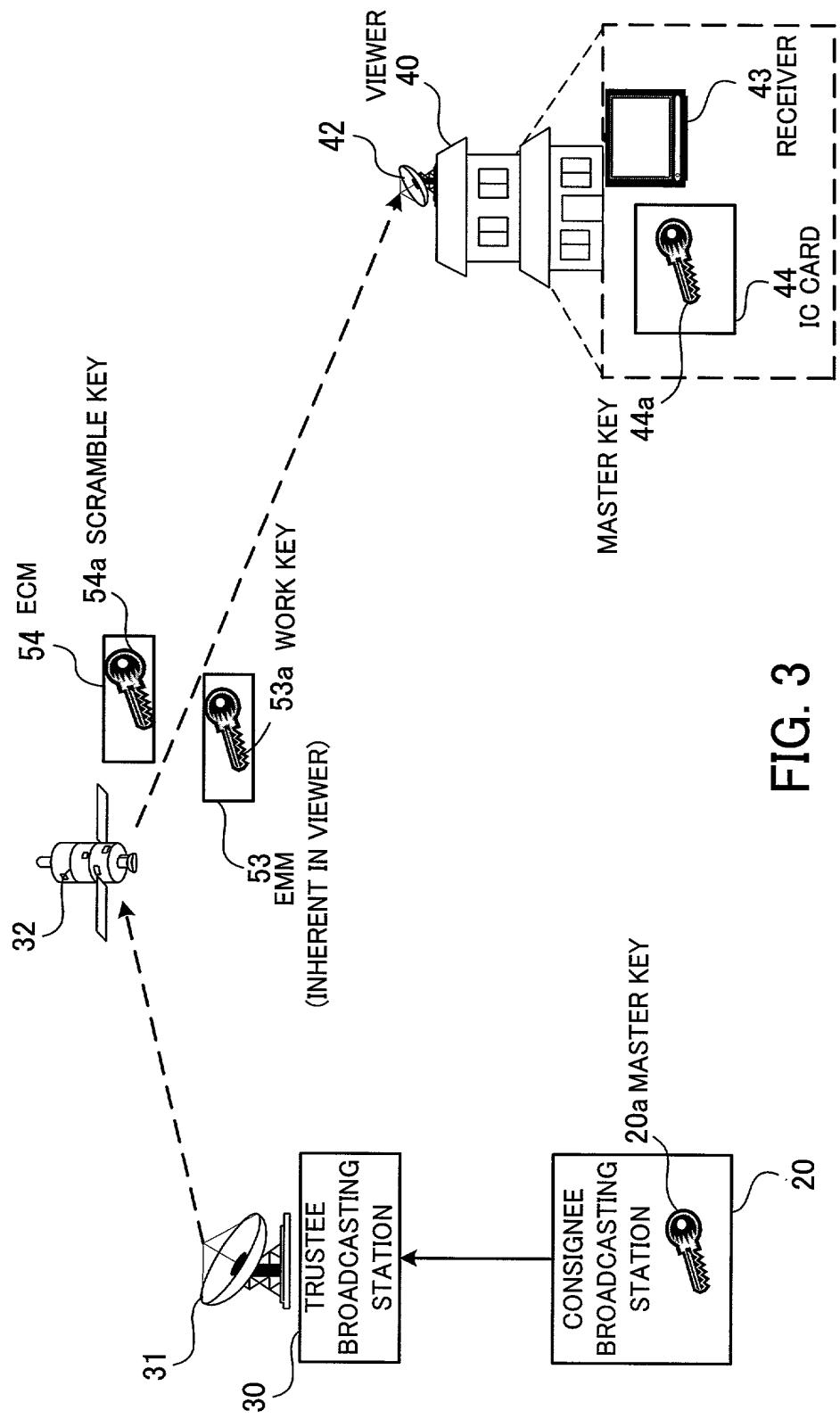


FIG. 3

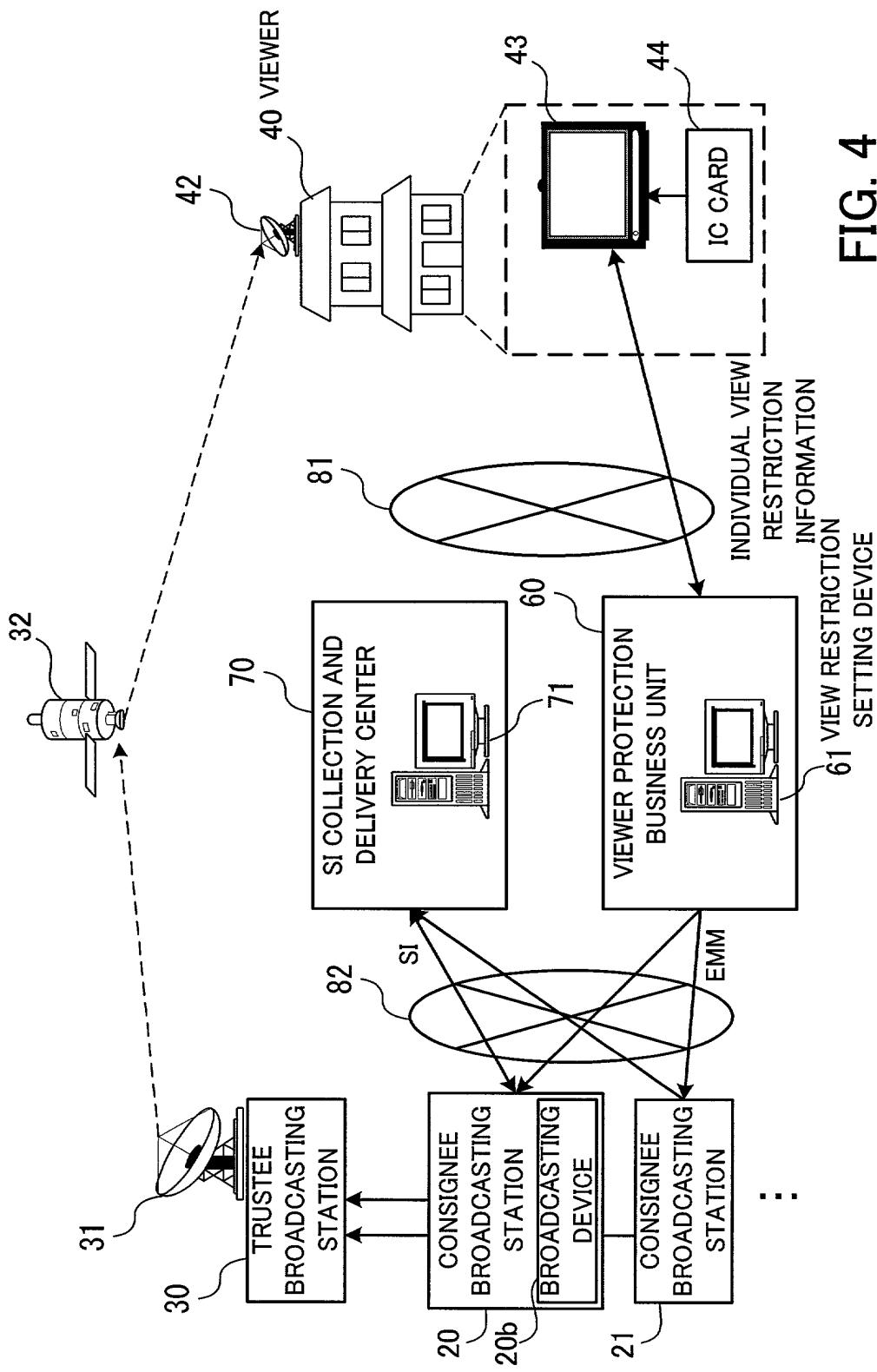


FIG. 4

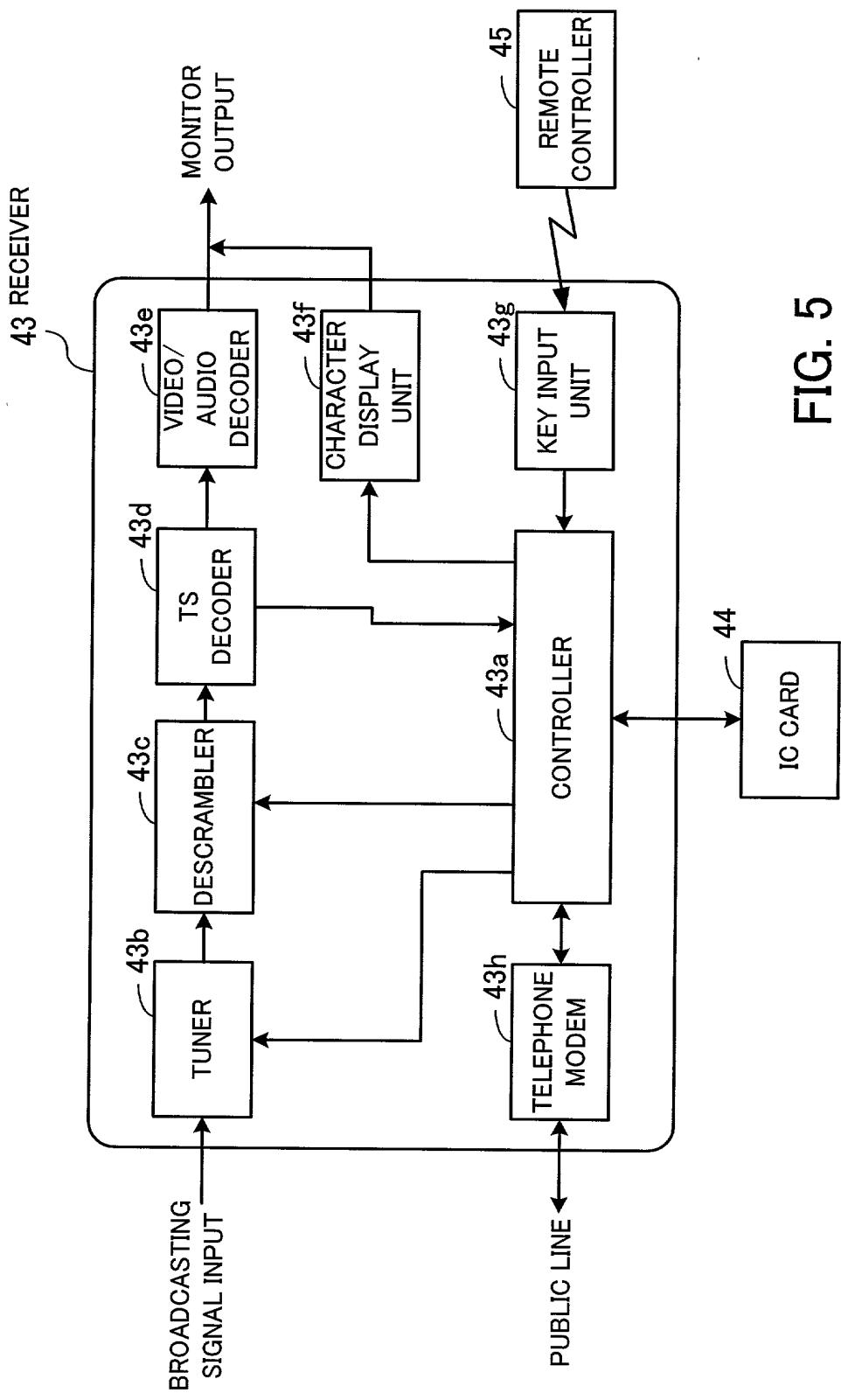


FIG. 5

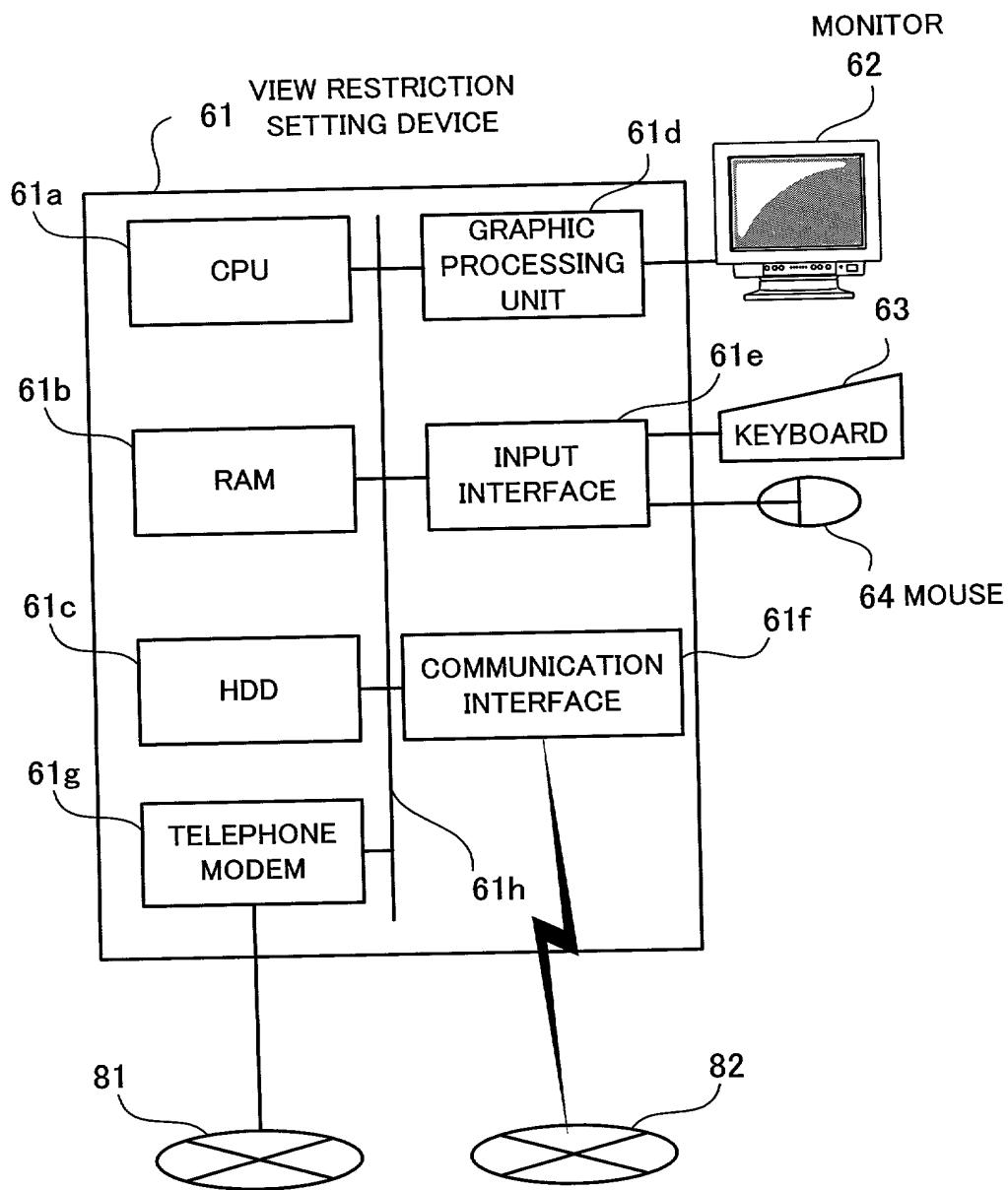
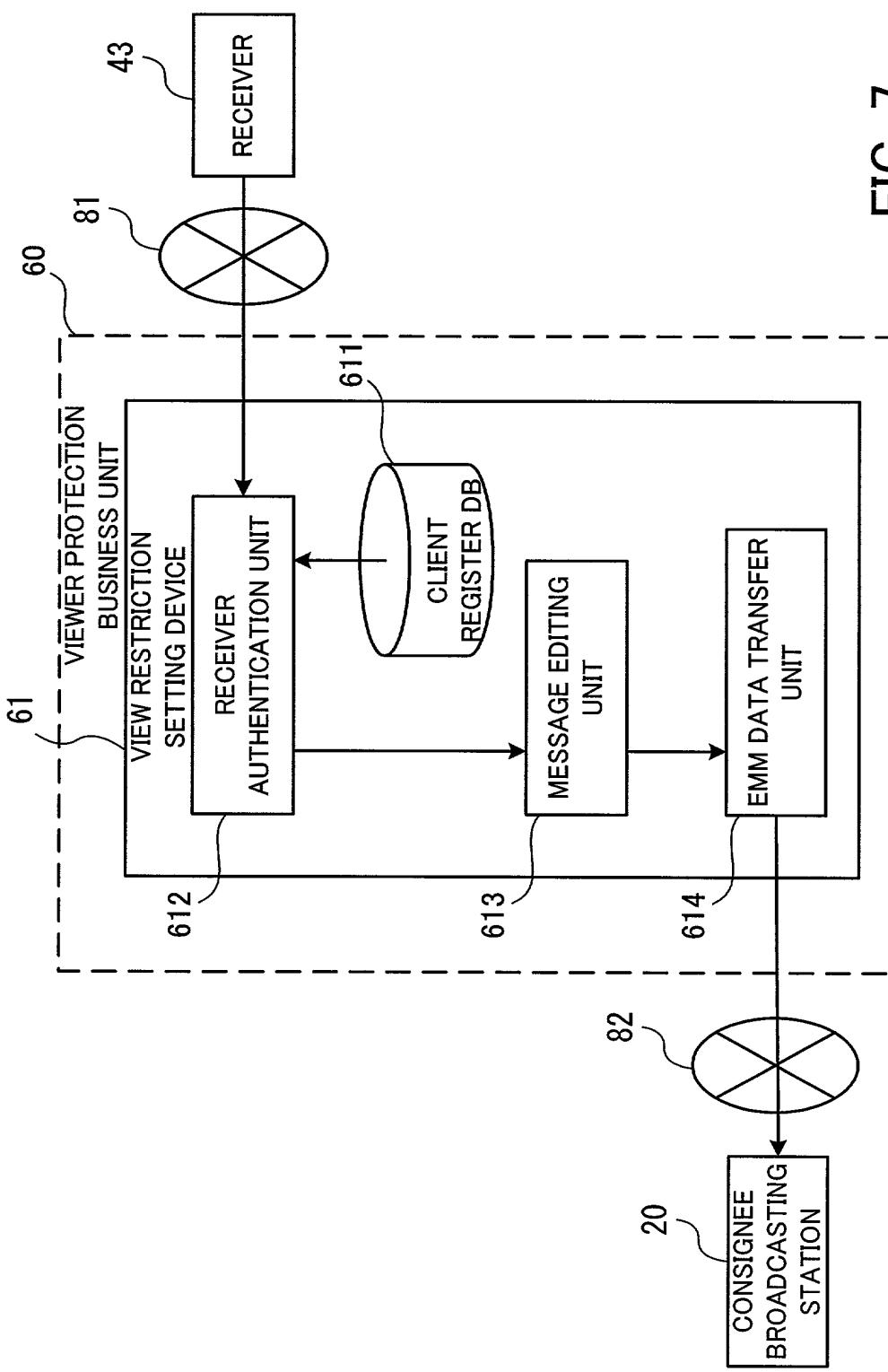


FIG. 6

FIG. 7



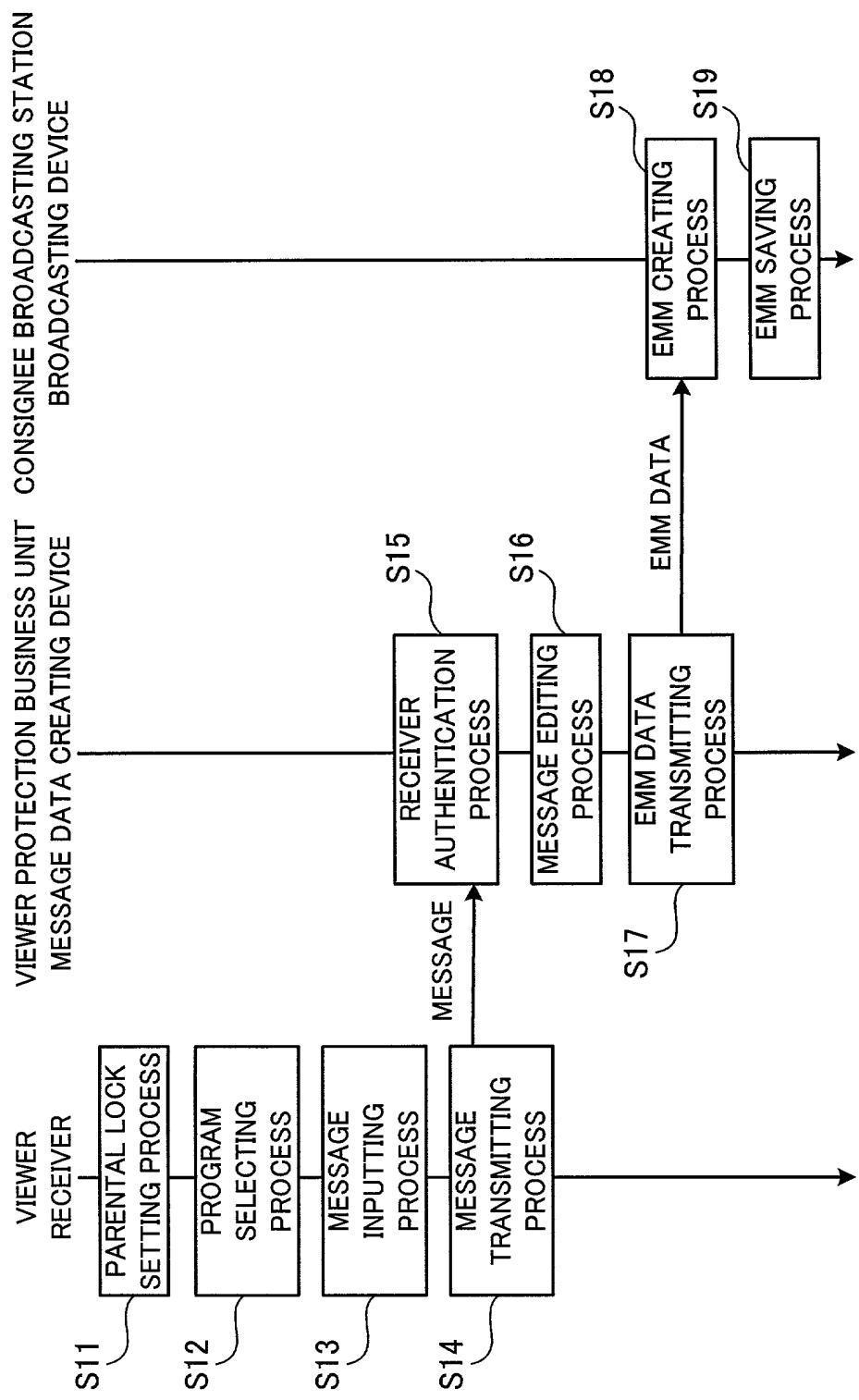


FIG. 8

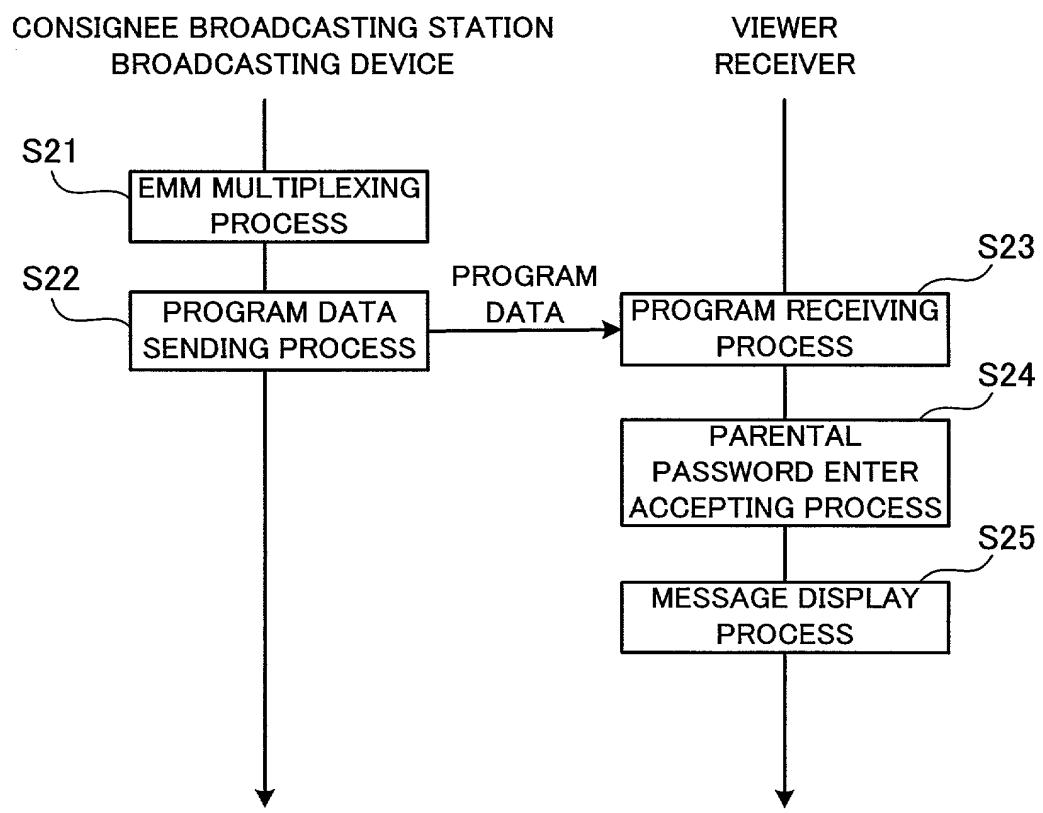


FIG. 9

111 INFORMATION ABOUT PROGRAM SUBJECT
TO RESTRICTION

DATA ITEM	SOURCE
STREAM IDENTIFICATION DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
NETWORK NAME DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SYSTEM MANAGEMENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SERVICE LIST DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SATELLITE DISTRIBUTION SYSTEM DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SERVICE DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
BROADCASTER NAME DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
RECTANGULAR EVENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
COMPONENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
AUDIO COMPONENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)

FIG. 10

FIG. 11
(A)

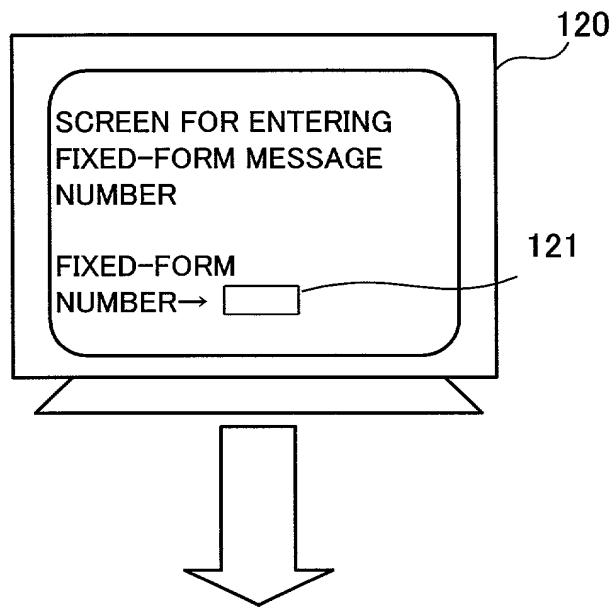
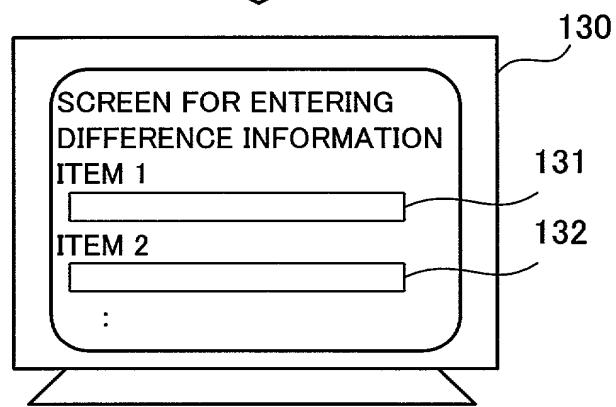


FIG. 11
(B)



DATA ITEM	SOURCE
IC CARD ID OF RECEIVER	ID OF IC CARD LOADED TO RECEIVER
STREAM IDENTIFICATION DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
NETWORK NAME DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SYSTEM MANAGEMENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SERVICE LIST DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SATELLITE DISTRIBUTION SYSTEM DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SERVICE DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
BROADCASTER NAME DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
RECTANGULAR EVENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
COMPONENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
AUDIO COMPONENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
FIXED-FORM MESSAGE NUMBER	SELECTED FIXED-FORM MESSAGE NUMBER
MESSAGE DIFFERENCE INFORMATION	PHRASE AND SENTENCE INPUT TO CHANGEABLE PART OF FIXED-FORM MESSAGE

FIG. 12

113 EMM DATA

DATA ITEM	CONTENT	BYTES
CARD ID	ID OF IC CARD LOADED TO RECEIVER	6
PAY BUSINESS UNIT IDENTIFICATION CODE	CODE FOR IDENTIFYING BUSINESS UNIT ON PAY BROADCASTING OPERATION	1
MESSAGE ID	ID OF MESSAGE	1
FIXED-FORM MESSAGE NUMBER	SELECTED FIXED-FORM MESSAGE NUMBER	2
MESSAGE DIFFERENCE INFORMATION	PHRASE AND SENTENCE INPUT TO CHANGEABLE PART OF FIXED-FORM MESSAGE	N

FIG. 13

114 PROGRAM DESIGNATING DATA

DATA ITEM	SOURCE
STREAM IDENTIFICATION DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
NETWORK NAME DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SYSTEM MANAGEMENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SERVICE LIST DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SATELLITE DISTRIBUTION SYSTEM DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
SERVICE DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
BROADCASTER NAME DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
RECTANGULAR EVENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
COMPONENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)
AUDIO COMPONENT DESCRIPTOR	ALL-STATIONS EPG DATA (SERVICE INFORMATION)

FIG. 14

DATA ITEM	CONTENT	BYTES
CARD ID	ID OF IC CARD LOADED TO RECEIVER	6
MESSAGE BYTE LENGTH	BYTE LENGTH FROM PROTOCOL NUMBER TO THE LAST OF MESSAGE CODE FIELD	2
PROTOCOL NUMBER	VALUE OTHER THAN 0xFF (NO ENCRYPT)	1
PAY BUSINESS UNIT IDENTIFICATION CODE	CODE FOR IDENTIFYING BUSINESS UNIT ON PAY BROADCASTING OPERATION	1
MESSAGE ID	ID OF MESSAGE	1
MESSAGE CONTROL INFORMATION	0x00 ("STORED IN IC CARD")	1
TAMPER-PROOF CHECK OR SPARE	SPECIFY TYPE STREAM FOR TAMPER CHECK	2
EXPIRATION DATE OR SPARE	END DATE OF PROGRAM	2
FIXED-FORM MESSAGE NUMBER	FIXED-FORM MESSAGE NUMBER	2
DIFFERENCE FORMAT NUMBER	DESCRIPTION FORMAT NUMBER OF DIFFERENCE	1
DIFFERENCE INFORMATION LENGTH	INFORMATION	2
DIFFERENCE INFORMATION	BYTE LENGTH OF DIFFERENCE INFORMATION	N
STUFFING	MESSAGE DIFFERENCE INFORMATION	M
	STUFFING BIT	

115
EMM INDIVIDUAL MESSAGE

FIG. 15

116 EMM COMMON MESSAGE

DATA ITEM	CONTENT	BYTES
PAY BUSINESS UNIT IDENTIFICATION CODE	CODE FOR IDENTIFYING BUSINESS UNIT ON PAY BROADCASTING OPERATION	1
AUTOMATIC DISPLAY DELETION TYPE	0x01(="DELETION IS NOT ALLOWED")	1
AUTOMATIC DISPLAY CONTINUOUS TIME 1	0xFF(="NO LIMIT")	1
AUTOMATIC DISPLAY CONTINUOUS TIME 2	—	1
AUTOMATIC DISPLAY CONTINUOUS TIME 3	—	1
AUTOMATIC DISPLAY TIMES	"1"	1
FORMAT NUMBER	FORMAT OF MESSAGE CODE BODY	1
MESSAGE LENGTH	BYTE LENGTH OF MESSAGE CODE	2
MESSAGE CODE BODY	FIXED-FORM SENTENCE	L

FIG. 16

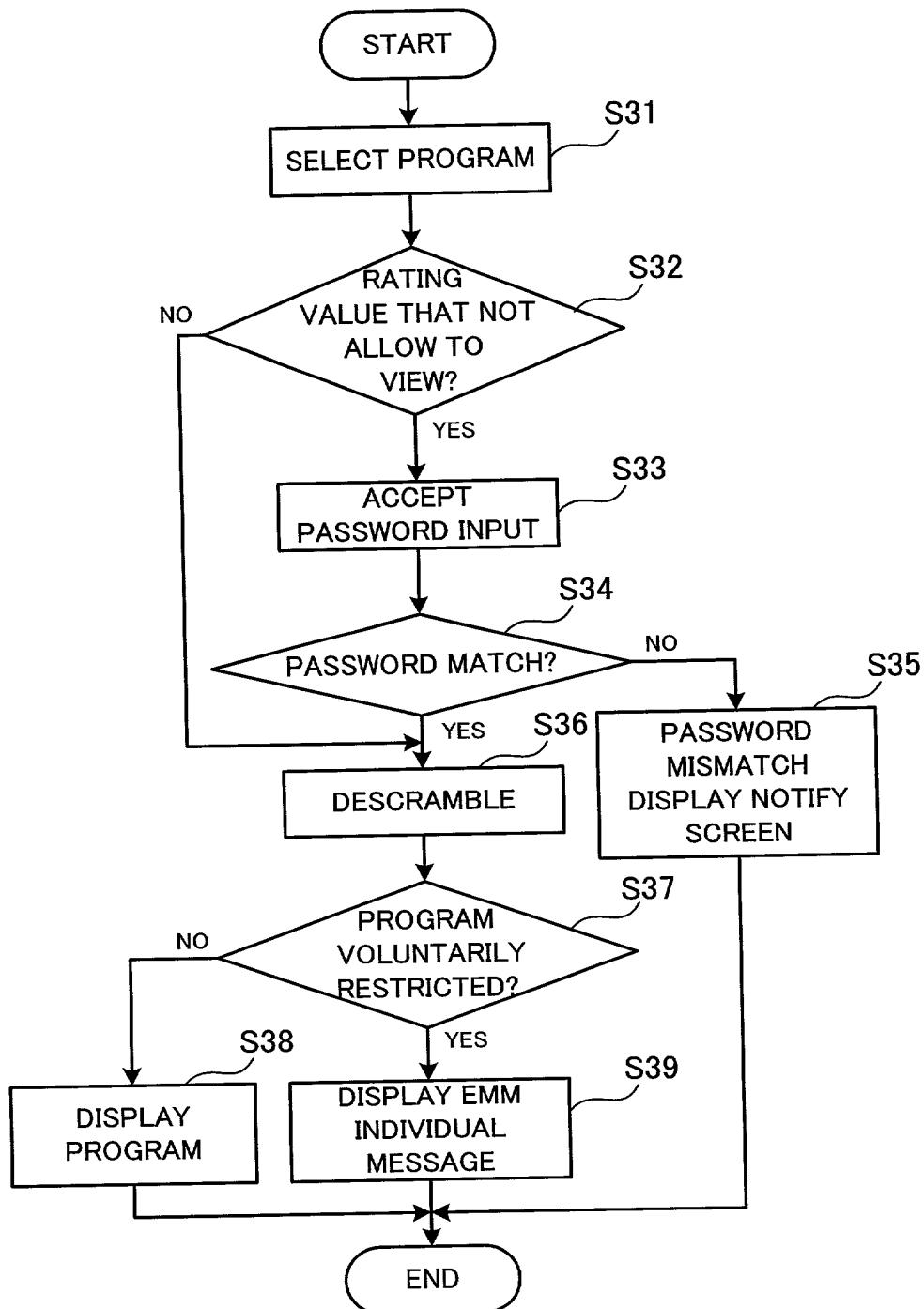


FIG. 17